

C.I. HIGHLIGHTS
JANUARY, 1995

NEW BRANDS

EXOTIC TOBACCO CO.

BUZ KING SIZE (BOX)

Buz cigarettes are manufactured by the Exotic Tobacco Co. of Blaine, Washington, where they have been available in cafes, clubs and newsstands since November (Seattle Post-Intelligencer, 1/14/95). (The following address is printed on the pack: Exotic Tobacco Company, P.O. 12217, Ogden, Utah 84412-2217.) This new product delivers 14 mg tar and 0.9 mg nicotine. Exotic's advertisements list the tar delivery as 17 mg and the nicotine delivery as 1.2mg. The purple and orange pack design is repeated on the tipping paper. Buz is targeted toward Generation X, "with the pitch that mainstream cigarettes are what your dad smoked, and frankly...pretty boring". Exotic president, Randy Bishop describes Buz as a "New exotic smoke with industrial-strength flavoring, referring to a vanilla flavoring in Buz's otherwise basic American-blended tobacco".

These data are representative of a random sample taken from five cartons. The expanded stems found in this sample appeared to have been processed differently from stems routinely observed. Additional analyses for vanillin in paper and blend are in progress.

INDIA TOBACCO CO.

CHECKERS FULL FLAVOR KS (SP)

CHECKERS MENTHOL KS (SP)

CHECKERS LIGHTS KS (SP)

CHECKERS LIGHTS MENTHOL KS (SP)

CHECKERS ULTRA LIGHTS KS (SP)

Checkers is manufactured by the India Tobacco Company for a network of U.S. tobacco distributors. Reportedly, domestic tobacco is shipped from the U.S. to India for production, and finished product is reshipped to the U.S. for sale. Including federal excise tax, the net price to wholesale trade is \$4.85 per carton.

	<u>Tar,</u> <u>mg/cigt.</u>	<u>Nicotine,</u> <u>mg/cigt.</u>	<u>Menthol</u> <u>mg/cigt.</u>
Checkers Full Flavor KS (SP)	17	1.1	-
Checkers Menthol KS (SP)	17	1.1	0.5
Checkers Lights KS (SP)	13	1.0	-
Checkers Lights Menthol KS (SP)	13	1.0	0.5
Checkers Ultra Lights KS (SP)	9	0.8	-

BRAND MODIFICATIONS**R. J. REYNOLDS**

The level of glycerin in filler has been increased in the following brands. No changes were observed in the PG levels.

	% in Filler	Current	Previous
Best Value Ultra Lights 100	Glycerin	1.4	0.7
	PG	0.3	0.3
Camel Lights KS	Glycerin	1.4	0.6
	PG	1.0	1.2
Camel KS (Box)	Glycerin	1.9	0.9
	PG	0.2	0.3
Monarch Full Flavor Menthol KS	Glycerin	1.1	0.7
	PG	0.4	0.3
Salem Lights Menthol 100	Glycerin	1.5	0.7
	PG	0.4	0.5
Salem Lights Menthol KS	Glycerin	1.9	0.9
	PG	0.5	0.5
Salem Menthol 100	Glycerin	1.7	0.8
	PG	0.2	0.3
Salem Menthol KS	Glycerin	1.7	0.7
	PG	0.3	0.3
Salem Slim Lights Menthol 100 (Box)	Glycerin	1.7	1.1
	PG	0.2	0.3
Salem Ultra Lights Menthol 100	Glycerin	1.5	0.7
	PG	0.4	0.4
Vantage 100	Glycerin	2.0	0.6
	PG	0.3	0.3
Vantage KS	Glycerin	1.9	0.8
	PG	1.0	1.1
Vantage Ultra Lights 100	Glycerin	1.9	0.9
	PG	0.3	0.3
Winston 100	Glycerin	2.0	0.6
	PG	1.0	1.2
Winston KS	Glycerin	1.7	0.8
	PG	0.3	0.3
Winston Lights 100	Glycerin	1.3	0.6
	PG	1.1	1.1
Winston Lights KS	Glycerin	2.0	0.8
	PG	1.1	1.1
Winston Ultra Lights 100	Glycerin	1.8	0.6
	PG	0.3	0.3

BRAND MODIFICATIONS

R. J. REYNOLDS

SALEM MENTHOL KING SIZE (SP)

SALEM MENTHOL 100 (SP)

SALEM LIGHTS MENTHOL KS (SP)

SALEM ULTRA LIGHTS MENTHOL 100 (SP)

A reduction in reconstituted tobacco (25 to 11%) and the addition of expanded stems (10%) were observed for Salem King Size, Salem 100, and Salem Lights King Size cigarettes. A reduction in reconstituted tobacco (25 to 11%) and an increase in expanded stems (2 to 9%) were observed for Salem Ultra Lights 100 cigarettes. A higher level of glycerin in filler was also observed for these brands.

R. J. REYNOLDS

WINSTON LIGHTS 100 (SP)

A second reduction in reconstituted tobacco (17 to 9%) was observed for Winston Lights 100 cigarettes. The reconstituted tobacco was reduced from 25 to 17% in September production. A higher level of glycerin in filler (0.6 to 1.3%) was also noted.

R. J. REYNOLDS

WINSTON ULTRA LIGHTS 100 (SP)

A reduction in reconstituted tobacco (27 to 14%) and an increase in expanded stems (2 to 8%) were observed for Winston Ultra Lights 100 cigarettes. A higher level of glycerin in filler (0.6 to 1.8%), and higher total RTD (115 to 125 mm of H₂O) were also noted.

R. J. REYNOLDS

WINSTON SELECT KS (SP)

WINSTON SELECT LIGHTS KS (SP)

A reduction in reconstituted tobacco (25 to 19%) and the addition of expanded stems (8%) were observed for Winston Select King Size and Winston Select Lights King Size cigarettes. Higher total RTD (113 to 124 mm of H₂O) was also noted for Winston Select King Size.

R. J. REYNOLDS

VANTAGE ULTRA LIGHTS 100 (SP)

A reduction in reconstituted tobacco (22 to 14%), an increase in expanded stems (2 to 11%), and an increase in expanded tobacco (15 to 19%) were observed for Vantage Ultra Lights 100 cigarettes. The higher tar delivery (5.0 to 6.5 mg) correlated with lower filter ventilation (55 to 47%). Higher total RTD (127 to 144 mm of H₂O) and a higher level of glycerin in filler (0.9 to 1.9%) were also noted.

BRAND MODIFICATIONS

R.J. REYNOLDS

MONARCH FULL FLAVOR KS & 100 (SP)
MONARCH LIGHTS KS & 100 (SP)
MONARCH LIGHTS MENTHOL KS & 100 (SP)
MONARCH ULTRA LIGHTS 100 (SP)

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch packings.

R.J. REYNOLDS

BEST VALUE FULL FLAVOR 100 (SP)
BEST VALUE LIGHTS MENTHOL 100 (SP)
BEST VALUE ULTRA LIGHTS 100 (SP)

An increase in expanded stems (11 to 19%) was observed for three packings of Best Value. A higher level of glycerin in filler (0.7 to 1.4%) was also noted for Best Value Ultra Lights 100 cigarettes.

BROWN & WILLIAMSON

KOOL MILDS MENTHOL KING SIZE (SP)
KOOL MENTHOL 100 (SP)

An increase in expanded tobacco (10 to 16%) was observed for Kool Milds Menthol King Size and Kool Menthol 100 cigarettes.

NEW BRAND

EXOTIC TOBACCO CO.
BUZ KING SIZE (BOX)

Buz cigarettes are manufactured by the Exotic Tobacco Co. of Blaine, Washington.

Buz King Size (Box)

Smoke

Butt Length, mm	29
Tar, mg/cigt.	13.8
Nicotine, mg/cigt.	0.94
Puffs/cigt.	8.9

Cigarette

Total RTD, mm of H ₂ O	134
Static Burning Time, min.	7.7
Length, mm	83.6
Circumference, mm	24.9
Loose Ends, g/50 cigt.	0.476

Paper

Component Type/%	Citrate/0.7
Permeability, CORESTA Units	53
Fiber Content	Woodpulp

Filter

Type	CA
RTD, mm of H ₂ O	86
Length, mm	20.9
Weight, g	0.13
Tipping Paper Length, mm/Color	26/Purple & Orange
Ventilation, %	None

Filler

Total Alkaloids, %	1.67
Total Red. Sugars, %	7.1
Reconstituted Tob., %	8
Expanded Stems, %	9
Expanded Tob., %	None
BBO, %	None
Lamina, %	83
Cuts/Inch	39
Wt. of Tob., g (12.5% OV)	0.815
Rod Density, g/cc	0.264

Humectant/Plasticizer

Triacetin in Filter, %	5.7
Glycerin in Filler, %	0.8
PG in Filler, %	0.3

Firmness (Pack)

Firmness, mm	2.23
Weight of Tob., g	0.790
Oven Volatiles, %	10.9

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PM3000984755

NEW BRAND

INDIA TOBACCO CO.
CHECKERS FULL FLAVOR KING SIZE (SP)

Checkers is manufactured by the India Tobacco Company for a network of U.S. tobacco distributors.

Checkers Full Flavor King Size (SP)

Smoke

Butt Length, mm	28
Tar, mg/cigt.	17.1
Nicotine, mg/cigt.	1.13
Puffs/cigt.	10.1

Cigarette

Total RTD, mm of H ₂ O	139
Static Burning Time, min.	8.7
Length, mm	83.6
Circumference, mm	24.8
Loose Ends, g/50 cigt.	0.183

Paper

Component Type/%	Citrate/0.8
Permeability, CORESTA Units	84
Fiber Type	Woodpulp and esparto grass

Filter

Type	CA
RTD, mm of H ₂ O	76
Length, mm	20.0
Weight, g	0.12
Tipping Paper Length, mm/Color	25/Cork
Ventilation, %	None

Filler

Total Alkaloids, % (DWB)	1.53
Total Red. Sugars, % (DWB)	8.1
Reconstituted Tob., %	8
Expanded Stems, %	10
Expanded Tob., %	None
BBO, %	7
Lamina, %	74
Cuts/Inch	37
Wt. of Tob., g (12.5% OV)	0.803
Rod Density, g/cc	0.258

Humectant/Plasticizer

Triacetin in Filter, %	6.0
Glycerin in Filler, %	1.9
PG in Filler, %	1.0

Firmness (Pack)

Firmness, mm	3.19
Weight of Tob., g	0.835
Oven Volatiles, %	14.1

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PM3000984756

NEW BRAND

INDIA TOBACCO CO.

CHECKERS MENTHOL KING SIZE (SP)

Checkers is manufactured by the India Tobacco Company for a network of U.S. tobacco distributors.

Checkers Menthol King Size (SP)

Smoke

Butt Length, mm	28
Tar, mg/cigt.	16.6
Nicotine, mg/cigt.	1.13
Puffs/cigt.	9.5

Cigarette

Total RTD, mm of H ₂ O	133
Static Burning Time, min.	8.5
Length, mm	83.7
Circumference, mm	25.1
Loose Ends, g/50 cigt.	0.256

Paper

Component Type/%	Citrate/0.8
Permeability, CORESTA Units	98
Fiber Type	Woodpulp and esparto grass

Filter

Type	CA
RTD, mm of H ₂ O	79
Length, mm	19.7
Weight, g	0.12
Tipping Paper Length, mm/Color	25/Cork
Ventilation, %	None

Filler

Total Alkaloids, % (DWB)	1.62
Total Red. Sugars, % (DWB)	6.2
Reconstituted Tob., %	8
Expanded Stems, %	10
Expanded Tob., %	None
BBO, %	7
Lamina, %	74
Cuts/Inch	37
Wt. of Tob., g (12.5% OV)	0.810
Rod Density, g/cc	0.252

Menthol

Smoke, mg/cigt.	0.50
Filler, mg/cigt. / Filter, mg/cigt.	2.3 / 1.6

Humectant/Plasticizer

Triacetin in Filter, %	5.8
Glycerin in Filler, %	1.8
PG in Filler, %	1.1

Firmness (Pack)

Firmness, mm	2.72
Weight of Tob., g	0.831
Oven Volatiles, %	13.2

NEW BRAND

INDIA TOBACCO CO.

CHECKERS LIGHTS KING SIZE (SP)

Checkers is manufactured by the India Tobacco Company for a network of U.S. tobacco distributors.

Checkers Lights King Size (SP)

Smoke

Butt Length, mm	28
Tar, mg/cigt.	12.7
Nicotine, mg/cigt.	0.97
Puffs/cigt.	9.8

Cigarette

Total RTD, mm of H ₂ O	117
Static Burning Time, min.	8.5
Length, mm	83.8
Circumference, mm	24.8
Loose Ends, g/50 cigt.	1.232

Paper

Component Type/%	Citrate/1.0
Permeability, CORESTA Units	77
Fiber Type	Woodpulp

Filter

Type	CA
RTD, mm of H ₂ O	87
Length, mm	19.9
Weight, g	0.12
Tipping Paper Length, mm/Color	25/White
Ventilation, %	35
Type/Rows of Holes	Hauni Laser/1

Filler

Total Alkaloids, % (DWB)	1.61
Total Red. Sugars, % (DWB)	5.4
Reconstituted Tob., %	8
Expanded Stems, %	10
Expanded Tob., %	None
BBO, %	7
Lamina, %	74
Cuts/Inch	37
Wt. of Tob., g (12.5% OV)	0.783
Rod Density, g/cc	0.250

Humectant/Plasticizer

Triacetin in Filter, %	5.5
Glycerin in Filler, %	1.8
PG in Filler, %	1.0

Firmness (Pack)

Firmness, mm	2.59
Weight of Tob., g	0.785
Oven Volatiles, %	11.9

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NEW BRAND

INDIA TOBACCO CO.

CHECKERS LIGHTS MENTHOL KING SIZE (SP)

Checkers is manufactured by the India Tobacco Company for a network of U.S. tobacco distributors.

Checkers Lights Menthol King Size (SP)

Smoke

Butt Length, mm	28
Tar, mg/cigt.	13.0
Nicotine, mg/cigt.	0.98
Puffs/cigt.	10.5

Cigarette

Total RTD, mm of H ₂ O	126
Static Burning Time, min.	8.5
Length, mm	83.8
Circumference, mm	24.9
Loose Ends, g/50 cigt.	0.862

Paper

Component Type/%	Citrate/1.0
Permeability, CORESTA Units	76
Fiber Type	Woodpulp

Filter

Type	CA
RTD, mm of H ₂ O	88
Length, mm	19.8
Weight, g	0.13
Tipping Paper Length, mm/Color	25/White
Ventilation, %	35
Type/Rows of Holes	Hauni Laser/1

Filler

Total Alkaloids, % (DWB)	1.58
Total Red. Sugars, % (DWB)	6.2
Reconstituted Tob., %	8
Expanded Stems, %	10
Expanded Tob., %	None
BBO, %	7
Lamina, %	74
Cuts/Inch	37
Wt. of Tob., g (12.5% OV)	0.826
Rod Density, g/cc	0.262

Menthol

Smoke, mg/cigt.	0.46
Filler, mg/cigt. / Filter, mg/cigt.	2.3 / 1.6

Humectant/Plasticizer

Triacetin in Filter, %	4.4
Glycerin in Filler, %	2.0
PG in Filler, %	1.1

Firmness (Pack)

Firmness, mm	2.05
Weight of Tob., g	0.833
Oven Volatiles, %	10.9

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PM3000984759

NEW BRAND

INDIA TOBACCO CO.

CHECKERS ULTRA LIGHTS KING SIZE (SP)

Checkers is manufactured by the India Tobacco Company for a network of U.S. tobacco distributors.

Checkers Ultra Lights King Size (SP)

Smoke

Butt Length, mm	28
Tar, mg/cigt.	9.3
Nicotine, mg/cigt.	0.78
Puffs/cigt.	10.0

Cigarette

Total RTD, mm of H ₂ O	103
Static Burning Time, min.	8.2
Length, mm	83.6
Circumference, mm	25.2
Loose Ends, g/50 cigt.	0.684

Paper

Component Type/%	Citrate/0.9
Permeability, CORESTA Units	89
Fiber Type	Woodpulp and esparto grass

Filter

Type	CA
RTD, mm of H ₂ O	81
Length, mm	20.0
Weight, g	0.13
Tipping Paper Length, mm/Color	25/White
Ventilation, %	50
Type/Rows of Holes	Hauni Laser/1

Filler

Total Alkaloids, % (DWB)	1.51
Total Red. Sugars, % (DWB)	5.6
Reconstituted Tob., %	8
Expanded Stems, %	10
Expanded Tob., %	None
BBO, %	7
Lamina, %	74
Cuts/Inch	37
Wt. of Tob., g (12.5% OV)	0.843
Rod Density, g/cc	0.263

Humectant/Plasticizer

Triacetin in Filter, %	5.2
Glycerin in Filler, %	1.2
PG in Filler, %	0.8

Firmness (Pack)

Firmness, mm	2.60
Weight of Tob., g	0.849
Oven Volatiles, %	12.1

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PM3000984760

BRAND MODIFICATION**R.J. REYNOLDS****SALEM MENTHOL KING SIZE (SP)**

A reduction in reconstituted tobacco (25 to 11%) and the addition of expanded stems (10%) were observed for Salem King Size cigarettes. A higher level of glycerin in filler was also noted.

Salem Menthol KS (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	28	28
Tar, mg/cigt.	17.1	17.0
Nicotine, mg/cigt.	1.14	1.22
Puffs/cigt.	7.8	7.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	124	115
Static Burning Time, min.	7.2	7.9
Length, mm	83.8	83.8
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	1.738	0.601
<u>Paper</u>		
Permeability, CORESTA Units	23	28
<u>Filter</u>		
RTD, mm of H ₂ O	69	68
Length, mm	21.0	21.0
Weight, g	0.12	0.12
Tipping Paper Length, mm/Color	25/White	25/White
Ventilation, %	None	None
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.94	2.03
Total Red. Sugars, % (DWB)	8.2	8.6
Reconstituted Tob., %	11	25
Expanded Stems, %	10	None
Expanded Tob., %	7	7
Wt. of Tob., g (12.5% OV)	0.717	0.721
Rod Density, g/cc	0.231	0.233
<u>Menthol</u>		
Smoke, mg/cigt.	0.58	0.59
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	8.2	7.2
Glycerin in Filler, %	1.7	0.7
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	3.24	3.09
Weight of Tob., g	0.727	0.726
Oven Volatiles, %	13.0	12.7

BRAND MODIFICATION**R.J. REYNOLDS****SALEM MENTHOL 100 (SP)**

A reduction in reconstituted tobacco (25 to 11%) and the addition of expanded stems (10%) were observed for Salem 100 cigarettes. A higher level of glycerin in filler was also noted.

Salem Menthol 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	35	35
Tar, mg/cigt.	16.8	16.9
Nicotine, mg/cigt.	1.26	1.33
Puffs/cigt.	9.7	9.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	110	104
Static Burning Time, min.	7.2	8.1
Length, mm	99.5	99.4
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	1.577	1.511
<u>Paper</u>		
Permeability, CORESTA Units	26	25
<u>Filter</u>		
RTD, mm of H ₂ O	69	67
Length, mm	26.8	27.1
Weight, g	0.15	0.15
Tipping Paper Length, mm/Color	32/White	32/White
Ventilation, %	17	15
<u>Filler</u>		
Total Alkaloids, % (DWB)	2.02	2.01
Total Red. Sugars, % (DWB)	7.0	8.6
Reconstituted Tob., %	11	25
Expanded Stems, %	10	None
Expanded Tob., %	7	7
Wt. of Tob., g (12.5% OV)	0.805	0.804
Rod Density, g/cc	0.225	0.226
<u>Menthol</u>		
Smoke, mg/cigt.	0.53	0.56
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.6	7.4
Glycerin in Filler, %	1.7	0.8
PG in Filler, %	0.2	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	3.42	3.44
Weight of Tob., g	0.825	0.818
Oven Volatiles, %	13.5	12.7

BRAND MODIFICATION**R. J. REYNOLDS****SALEM LIGHTS MENTHOL KING SIZE (SP)**

A reduction in reconstituted tobacco (25 to 11%) and the addition of expanded stems (10%) were observed for Salem Lights King Size cigarettes. A higher level of glycerin in filler was also noted.

Salem Lights Menthol King Size (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	34	34
Tar, mg/cigt.	9.5	9.8
Nicotine, mg/cigt.	0.73	0.79
Puffs/cigt.	7.6	7.9
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	120	128
Static Burning Time, min.	7.1	7.7
Length, mm	83.8	83.7
Circumference, mm	24.9	24.8
Loose Ends, g/50 cigt.	0.296	0.535
<u>Paper</u>		
Permeability, CORESTA Units	37	45
<u>Filter</u>		
RTD, mm of H ₂ O	108	105
Length, mm	26.5	26.8
Weight, g	0.16	0.16
Tipping Paper Length, mm/Color	31/White	31/White
Ventilation, %	24	24
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.92	1.97
Total Red. Sugars, % (DWB)	8.5	8.9
Reconstituted Tob., %	11	25
Expanded Stems, %	10	None
Expanded Tob., %	9	8
Wt. of Tob., g (12.5% OV)	0.654	0.670
Rod Density, g/cc	0.232	0.241
<u>Menthol</u>		
Smoke, mg/cigt.	0.47	0.48
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.6	7.4
Glycerin in Filler, %	1.9	0.9
PG in Filler, %	0.5	0.5
<u>Firmness (Pack)</u>		
Firmness, mm	2.81	2.82
Weight of Tob., g	0.669	0.681
Oven Volatiles, %	13.1	12.7

BRAND MODIFICATION**R. J. REYNOLDS****SALEM ULTRA LIGHTS MENTHOL 100 (SP)**

A reduction in reconstituted tobacco (25 to 11%) and an increase in expanded stems (2 to 9%) were observed for Salem Ultra Lights 100 cigarettes. A higher level of glycerin in filler was also noted.

Salem Ultra Lights Menthol 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	5.5	4.9
Nicotine, mg/cigt.	0.47	0.41
Puffs/cigt.	10.1	10.0
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	119	114
Static Burning Time, min.	7.1	7.8
Length, mm	98.8	98.8
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	0.786	1.165
<u>Paper</u>		
Permeability, CORESTA Units	27	27
<u>Filter</u>		
RTD, mm of H ₂ O	146	150
Length, mm	31.0	30.9
Weight, g	0.20	0.21
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	56	60
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.88	1.88
Total Red. Sugars, % (DWB)	8.9	9.3
Reconstituted Tob., %	11	25
Expanded Stems, %	9	2
Expanded Tob., %	11	11
Wt. of Tob., g (12.5% OV)	0.777	0.782
Rod Density, g/cc	0.232	0.233
<u>Menthol</u>		
Smoke, mg/cigt.	0.34	0.32
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	6.3	6.1
Glycerin in Filler, %	1.5	0.7
PG in Filler, %	0.4	0.4
<u>Firmness (Pack)</u>		
Firmness, mm	3.21	3.11
Weight of Tob., g	0.792	0.790
Oven Volatiles, %	13.3	12.6

BRAND MODIFICATION**R.J. REYNOLDS****WINSTON LIGHTS 100 (SP)**

A second reduction in reconstituted tobacco (17 to 9%) was observed for Winston Lights 100 cigarettes. The reconstituted tobacco was reduced from 25 to 17% in September production. A higher level of glycerin in filler was also noted.

Winston Lights 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	9.4	10.3
Nicotine, mg/cigt.	0.76	0.83
Puffs/cigt.	9.7	9.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	125	125
Static Burning Time, min.	7.6	7.2
Length, mm	98.5	99.3
Circumference, mm	24.9	24.8
Loose Ends, g/50 cigt.	0.402	0.863
<u>Paper</u>		
Permeability, CORESTA Units	35	41
<u>Filter</u>		
RTD, mm of H ₂ O	106	104
Length, mm	30.7	30.8
Weight, g	0.18	0.17
Tipping Paper Length, mm/Color	35/Cork	35/Cork
Ventilation, %	32	32
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.86	1.89
Total Red. Sugars, % (DWB)	8.7	9.1
Reconstituted Tob., %	9	17
Expanded Stems, %	10	9
Expanded Tob., %	7	6
Wt. of Tob., g (12.5% OV)	0.793	0.800
Rod Density, g/cc	0.237	0.239
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	9.6	8.7
Glycerin in Filler, %	1.3	0.6
PG in Filler, %	1.1	1.1
<u>Firmness (Pack)</u>		
Firmness, mm	3.30	3.18
Weight of Tob., g	0.808	0.817
Oven Volatiles, %	13.4	13.0

BRAND MODIFICATIONR. J. REYNOLDSWINSTON ULTRA LIGHTS 100 (SP)

A reduction in reconstituted tobacco (27 to 14%) and an increase in expanded stems (2 to 8%) were observed for Winston Ultra Lights 100 cigarettes. A higher level of glycerin in filler and higher total RTD were also noted.

Winston Ultra Lights 100 (SP)		
	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	4.8	4.6
Nicotine, mg/cigt.	0.43	0.41
Puffs/cigt.	8.9	9.5
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	125	115
Static Burning Time, min.	6.5	7.1
Length, mm	99.0	99.1
Circumference, mm	25.0	24.9
Loose Ends, g/50 cigt.	0.688	0.624
<u>Paper</u>		
Permeability, CORESTA Units	38	39
<u>Filter</u>		
RTD, mm of H ₂ O	152	145
Length, mm	31.1	30.7
Weight, g	0.20	0.22
Tipping Paper Length, mm/Color	35/Cork	35/Cork
Ventilation, %	54	58
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.92	1.93
Total Red. Sugars, % (DWB)	6.8	7.7
Reconstituted Tob., %	14	27
Expanded Stems, %	8	2
Expanded Tob., %	18	18
Wt. of Tob., g (12.5% OV)	0.741	0.734
Rod Density, g/cc	0.219	0.217
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	6.4	8.1
Glycerin in Filler, %	1.8	0.6
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	3.27	3.06
Weight of Tob., g	0.753	0.750
Oven Volatiles, %	13.3	12.9

BRAND MODIFICATION**R.J. REYNOLDS****WINSTON SELECT KS (SP)**

A reduction in reconstituted tobacco (25 to 19%) and the addition of expanded stems (8%) were observed for Winston Select King Size cigarettes. Higher total RTD was also noted..

Winston Select King Size (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	28	28
Tar, mg/cigt.	16.5	16.6
Nicotine, mg/cigt.	1.27	1.25
Puffs/cigt.	9.6	9.5
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	124	113
Static Burning Time, min.	9.0	8.1
Length, mm	83.8	83.8
Circumference, mm	25.0	24.9
Loose Ends, g/50 cigt.	0.539	0.587
<u>Paper</u>		
Permeability, CORESTA Units	36	40
<u>Filter</u>		
RTD, mm of H ₂ O	77	75
Length, mm	21.1	21.0
Weight, g	0.13	0.13
Tipping Paper Length, mm/Color	25/Cork	25/Cork
Ventilation, %	18	18
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.90	2.02
Total Red. Sugars, % (DWB)	9.6	8.9
Reconstituted Tob., %	19	25
Expanded Stems, %	8	None
Expanded Tob., %	7	5
Wt. of Tob., g (12.5% OV)	0.772	0.760
Rod Density, g/cc	0.248	0.245
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.8	9.2
Glycerin in Filler, %	1.7	2.2
PG in Filler, %	1.1	1.2
<u>Firmness (Pack)</u>		
Firmness, mm	2.95	3.13
Weight of Tob., g	0.774	0.771
Oven Volatiles, %	13.3	13.0

BRAND MODIFICATION**R.J. REYNOLDS****WINSTON SELECT LIGHTS KING SIZE (SP)**

A reduction in reconstituted tobacco (25 to 19%) and the addition of expanded stems (8%) were observed for Winston Select Lights King Size cigarettes.

Winston Select Lights King Size (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	34	34
Tar, mg/cigt.	10.5	11.8
Nicotine, mg/cigt.	0.84	0.92
Puffs/cigt.	8.5	8.7
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	122	121
Static Burning Time, min.	8.2	8.8
Length, mm	84.2	83.8
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	0.296	0.488
<u>Paper</u>		
Permeability, CORESTA Units	43	37
<u>Filter</u>		
RTD, mm of H ₂ O	97	95
Length, mm	26.8	26.9
Weight, g	0.16	0.16
Tipping Paper Length, mm/Color	31/White	31/White
Ventilation, %	29	23
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.89	2.02
Total Red. Sugars, % (DWB)	9.2	8.5
Reconstituted Tob., %	19	25
Expanded Stems, %	8	None
Expanded Tob., %	7	5
Wt. of Tob., g (12.5% OV)	0.708	0.697
Rod Density, g/cc	0.250	0.248
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	9.8	7.9
Glycerin in Filler, %	2.1	2.4
PG in Filler, %	1.1	1.1
<u>Firmness (Pack)</u>		
Firmness, mm	2.88	2.82
Weight of Tob., g	0.704	0.707
Oven Volatiles, %	13.5	13.3

BRAND MODIFICATION

R. J. REYNOLDS

VANTAGE ULTRA LIGHTS 100 (SP)

A reduction in reconstituted tobacco (22 to 14%), an increase in expanded stems (2 to 11%), and an increase in expanded tobacco (15 to 19%) were observed for Vantage Ultra Lights 100 cigarettes. The higher tar delivery correlated with lower filter ventilation. Higher total RTD and a higher level of glycerin in filler were also noted.

	Vantage Ultra Lights 100 (SP)	
	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	6.5	5.0
Nicotine, mg/cigt.	0.54	0.45
Puffs/cigt.	9.4	9.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	144	127
Static Burning Time, min.	7.1	7.8
Length, mm	99.0	99.1
Circumference, mm	24.8	24.8
Loose Ends, g/50 cigt.	0.418	0.768
<u>Paper</u>		
Permeability, CORESTA Units	22	26
<u>Filter</u>		
RTD, mm of H ₂ O	143	145
Length, mm	30.9	30.9
Weight, g	0.20	0.22
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	47	55
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.84	1.97
Total Red. Sugars, % (DWB)	7.6	6.9
Reconstituted Tob., %	14	22
Expanded Stems, %	11	2
Expanded Tob., %	19	15
Wt. of Tob., g (12.5% OV)	0.752	0.751
Rod Density, g/cc	0.225	0.225
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	6.5	9.1
Glycerin in Filler, %	1.9	0.9
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	2.90	3.05
Weight of Tob., g	0.760	0.747
Oven Volatiles, %	13.2	12.9

BRAND MODIFICATIONR. J. REYNOLDSMONARCH FULL FLAVOR KS (SP)

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Full Flavor King Size cigarettes.

Monarch Full Flavor King Size (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	28	28
Tar, mg/cigt.	13.6	13.4
Nicotine, mg/cigt.	0.75	0.78
Puffs/cigt.	6.8	7.2
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	134	135
Static Burning Time, min.	6.9	7.6
Length, mm	84.0	83.9
Circumference, mm	25.0	24.9
Loose Ends, g/50 cigt.	1.436	0.816
<u>Paper</u>		
Permeability, CORESTA Units	24	29
<u>Filter</u>		
RTD, mm of H ₂ O	67	67
Length, mm	20.8	20.8
Weight, g	0.11	0.11
Tipping Paper Length, mm/Color	25/Cork	25/Cork
Ventilation, %	None	None
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.50	1.40
Total Red. Sugars, % (DWB)	6.0	6.3
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.656	0.647
Rod Density, g/cc	0.209	0.208
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	8.2	7.9
Glycerin in Filler, %	0.7	0.7
PG in Filler, %	0.3	0.4
<u>Firmness (Pack)</u>		
Firmness, mm	2.61	2.58
Weight of Tob., g	0.660	0.654
Oven Volatiles, %	12.5	12.6

BRAND MODIFICATION**R. J. REYNOLDS****MONARCH LIGHTS KS (SP)**

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Lights King Size cigarettes.

	Monarch Lights King Size (SP)	
	Current	Previous
<u>Smoke</u>		
Butt Length, mm	34	34
Tar, mg/cigt.	9.1	9.5
Nicotine, mg/cigt.	0.58	0.58
Puffs/cigt.	6.4	6.7
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	124	124
Static Burning Time, min.	7.0	7.7
Length, mm	84.0	83.8
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	0.353	0.917
<u>Paper</u>		
Permeability, CORESTA Units	23	26
<u>Filter</u>		
RTD, mm of H ₂ O	86	86
Length, mm	26.8	26.7
Weight, g	0.15	0.15
Tipping Paper Length, mm/Color	31/White	31/White
Ventilation, %	19	19
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.44	1.49
Total Red. Sugars, % (DWB)	5.9	6.0
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.589	0.581
Rod Density, g/cc	0.209	0.206
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.9	8.2
Glycerin in Filler, %	0.5	0.7
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	2.32	2.62
Weight of Tob., g	0.586	0.586
Oven Volatiles, %	11.9	12.3

BRAND MODIFICATION**R. J. REYNOLDS****MONARCH LIGHTS MENTHOL KS (SP)**

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Lights Menthol King Size cigarettes.

Monarch Lights Menthol King Size (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	34	34
Tar, mg/cigt.	9.1	9.4
Nicotine, mg/cigt.	0.59	0.60
Puffs/cigt.	6.3	6.9
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	126	132
Static Burning Time, min.	7.0	7.1
Length, mm	84.0	83.7
Circumference, mm	24.8	24.9
Loose Ends, g/50 cigt.	0.918	1.132
<u>Paper</u>		
Permeability, CORESTA Units	24	26
<u>Filter</u>		
RTD, mm of H ₂ O	87	87
Length, mm	27.0	26.9
Weight, g	0.15	0.15
Tipping Paper Length, mm/Color	31/White	31/White
Ventilation, %	18	22
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.51	1.51
Total Red. Sugars, % (DWB)	6.2	5.9
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.577	0.586
Rod Density, g/cc	0.206	0.209
<u>Menthol</u>		
Smoke, mg/cigt.	0.45	0.44
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	8.4	7.8
Glycerin in Filler, %	0.6	0.8
PG in Filler, %	0.4	0.4
<u>Firmness (Pack)</u>		
Firmness, mm	2.77	2.25
Weight of Tob., g	0.580	0.588
Oven Volatiles, %	12.7	12.0

BRAND MODIFICATION**R. J. REYNOLDS****MONARCH FULL FLAVOR 100 (SP)**

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Full Flavor 100 cigarettes.

Monarch Full Flavor 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	13.1	13.0
Nicotine, mg/cigt.	0.79	0.75
Puffs/cigt.	7.5	7.6
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	148	156
Static Burning Time, min.	7.2	6.9
Length, mm	99.1	99.0
Circumference, mm	24.9	24.8
Loose Ends, g/50 cigt.	0.424	1.103
<u>Paper</u>		
Permeability, CORESTA Units	25	28
<u>Filter</u>		
RTD, mm of H ₂ O	77	78
Length, mm	30.8	30.6
Weight, g	0.17	0.16
Tipping Paper Length, mm/Color	35/Cork	35/Cork
Ventilation, %	None	None
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.39	1.47
Total Red. Sugars, % (DWB)	6.4	6.2
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.702	0.690
Rod Density, g/cc	0.209	0.206
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.9	7.6
Glycerin in Filler, %	0.6	0.7
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	2.47	2.48
Weight of Tob., g	0.709	0.701
Oven Volatiles, %	12.1	12.5

BRAND MODIFICATION**R. J. REYNOLDS****MONARCH LIGHTS 100 (SP)**

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Lights 100 cigarettes.

Monarch Lights 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	9.4	9.9
Nicotine, mg/cigt.	0.66	0.65
Puffs/cigt.	8.4	8.5
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	112	115
Static Burning Time, min.	7.1	7.6
Length, mm	98.9	99.1
Circumference, mm	24.6	24.8
Loose Ends, g/50 cigt.	0.585	0.631
<u>Paper</u>		
Permeability, CORESTA Units	25	27
<u>Filter</u>		
RTD, mm of H ₂ O	78	77
Length, mm	30.7	30.6
Weight, g	0.17	0.17
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	35	32
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.64	1.49
Total Red. Sugars, % (DWB)	4.9	5.9
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.666	0.688
Rod Density, g/cc	0.202	0.205
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.9	7.7
Glycerin in Filler, %	0.6	0.7
PG in Filler, %	0.2	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	2.24	2.38
Weight of Tob., g	0.687	0.699
Oven Volatiles, %	11.6	12.4

BRAND MODIFICATION**R.J. REYNOLDS****MONARCH LIGHTS MENTHOL 100 (SP)**

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Lights Menthol 100 cigarettes.

Monarch Lights Menthol 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	9.3	10.2
Nicotine, mg/cigt.	0.67	0.68
Puffs/cigt.	8.6	8.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	100	106
Static Burning Time, min.	7.1	7.4
Length, mm	99.0	99.0
Circumference, mm	24.7	24.9
Loose Ends, g/50 cigt.	0.964	1.107
<u>Paper</u>		
Permeability, CORESTA Units	24	25
<u>Filter</u>		
RTD, mm of H ₂ O	75	79
Length, mm	30.7	30.7
Weight, g	0.17	0.17
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	34	35
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.42	1.51
Total Red. Sugars, % (DWB)	6.7	6.4
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.695	0.701
Rod Density, g/cc	0.209	0.208
<u>Menthol</u>		
Smoke, mg/cigt.	0.51	0.50
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	8.3	7.1
Glycerin in Filler, %	0.5	0.8
PG in Filler, %	0.4	0.4
<u>Firmness (Pack)</u>		
Firmness, mm	2.67	2.51
Weight of Tob., g	0.696	0.704
Oven Volatiles, %	12.4	12.2

BRAND MODIFICATION**R.J. REYNOLDS****MONARCH ULTRA LIGHTS 100 (SP)**

An increase in expanded stems (11 to 17%) and a decrease in expanded tobacco (32 to 27%) were observed for Monarch Ultra Lights 100 cigarettes.

	Monarch Ultra Lights 100 (SP)	
	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	4.4	4.6
Nicotine, mg/cigt.	0.34	0.34
Puffs/cigt.	8.9	9.0
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	123	129
Static Burning Time, min.	6.7	7.2
Length, mm	99.1	98.9
Circumference, mm	24.6	24.8
Loose Ends, g/50 cigt.	0.643	0.768
<u>Paper</u>		
Permeability, CORESTA Units	23	26
<u>Filter</u>		
RTD, mm of H ₂ O	137	137
Length, mm	30.8	30.6
Weight, g	0.19	0.19
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	53	52
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.46	1.53
Total Red. Sugars, % (DWB)	6.3	5.8
Reconstituted Tob., %	24	28
Expanded Stems, %	17	11
Expanded Tob., %	27	32
Wt. of Tob., g (12.5% OV)	0.705	0.692
Rod Density, g/cc	0.214	0.207
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	6.5	6.7
Glycerin in Filler, %	0.6	0.7
PG in Filler, %	0.3	0.4
<u>Firmness (Pack)</u>		
Firmness, mm	2.47	2.38
Weight of Tob., g	0.706	0.696
Oven Volatiles, %	12.4	12.3

BRAND MODIFICATION**R.J. REYNOLDS****BEST VALUE FULL FLAVOR 100 (SP)**

An increase in expanded stems (11 to 19%) was observed for Best Value Full Flavor 100 cigarettes.

Best Value Full Flavor 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	13.0	13.5
Nicotine, mg/cigt.	0.76	0.77
Puffs/cigt.	7.6	7.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	160	154
Static Burning Time, min.	6.7	7.4
Length, mm	98.8	99.2
Circumference, mm	24.7	24.8
Loose Ends, g/50 cigt.	0.367	1.188
<u>Paper</u>		
Permeability, CORESTA Units	25	26
<u>Filter</u>		
RTD, mm of H ₂ O	75	78
Length, mm	30.6	30.7
Weight, g	0.16	0.17
Tipping Paper Length, mm/Color	35/Cork	35/Cork
Ventilation, %	None	None
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.51	1.48
Total Red. Sugars, % (DWB)	6.0	6.1
Reconstituted Tob., %	24	28
Expanded Stems, %	19	11
Expanded Tob., %	31	30
Wt. of Tob., g (12.5% OV)	0.694	0.699
Rod Density, g/cc	0.210	0.208
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.7	7.6
Glycerin in Filler, %	0.6	0.6
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	2.55	2.30
Weight of Tob., g	0.705	0.700
Oven Volatiles, %	12.4	11.9

BRAND MODIFICATION**R.J. REYNOLDS****BEST VALUE LIGHTS MENTHOL 100 (SP)**

An increase in expanded stems (11 to 19%) was observed for Best Value Lights Menthol 100 cigarettes.

Best Value Lights Menthol 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	9.3	9.7
Nicotine, mg/cigt.	0.62	0.66
Puffs/cigt.	8.6	8.6
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	109	110
Static Burning Time, min.	7.1	7.7
Length, mm	99.0	99.2
Circumference, mm	24.8	24.8
Loose Ends, g/50 cigt.	0.889	2.371
<u>Paper</u>		
Permeability, CORESTA Units	22	26
<u>Filter</u>		
RTD, mm of H ₂ O	79	81
Length, mm	30.6	30.5
Weight, g	0.16	0.17
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	37	35
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.40	1.52
Total Red. Sugars, % (DWB)	6.3	6.1
Reconstituted Tob., %	24	28
Expanded Stems, %	19	11
Expanded Tob., %	31	30
Wt. of Tob., g (12.5% OV)	0.686	0.693
Rod Density, g/cc	0.205	0.206
<u>Menthol</u>		
Smoke, mg/cigt.	0.48	0.49
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	8.3	6.8
Glycerin in Filler, %	0.5	0.7
PG in Filler, %	0.4	0.4
<u>Firmness (Pack)</u>		
Firmness, mm	2.13	2.41
Weight of Tob., g	0.695	0.688
Oven Volatiles, %	11.8	11.9

BRAND MODIFICATION**R. I. REYNOLDS****BEST VALUE ULTRA LIGHTS 100 (SP)**

An increase in expanded stems (11 to 19%) was observed for Best Value Ultra Lights 100 cig higher level of glycerin in filler was also noted.

Best Value Ultra Lights 100 (SP)		
	Current	Previous
<u>Smoke</u>		
Butt Length, mm	38	38
Tar, mg/cigt.	5.0	4.5
Nicotine, mg/cigt.	0.36	0.32
Puffs/cigt.	9.0	8.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	122	125
Static Burning Time, min.	6.7	7.1
Length, mm	99.2	98.7
Circumference, mm	24.8	24.8
Loose Ends, g/50 cigt.	0.669	0.664
<u>Paper</u>		
Permeability, CORESTA Units	25	29
<u>Filter</u>		
RTD, mm of H ₂ O	133	133
Length, mm	30.7	30.7
Weight, g	0.18	0.19
Tipping Paper Length, mm/Color	35/White	35/White
Ventilation, %	53	52
<u>Filler</u>		
Total Alkaloids, % (DWB)	1.52	1.46
Total Red. Sugars, % (DWB)	6.9	5.8
Reconstituted Tob., %	24	28
Expanded Stems, %	19	11
Expanded Tob., %	31	32
Wt. of Tob., g (12.5% OV)	0.671	0.685
Rod Density, g/cc	0.200	0.206
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	7.4	6.5
Glycerin in Filler, %	1.4	0.7
PG in Filler, %	0.3	0.3
<u>Firmness (Pack)</u>		
Firmness, mm	2.81	2.50
Weight of Tob., g	0.692	0.709
Oven Volatiles, %	12.8	12.7

BRAND MODIFICATIONBROWN & WILLIAMSONKOOL MILDS MENTHOL KS (SP)

An increase in expanded tobacco (10 to 16%) was observed for Kool Milds Menthol King Size cigarette.

Kool Milds Menthol King Size (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	35	35
Tar, mg/cigt.	11.2	12.0
Nicotine, mg/cigt.	0.84	0.85
Puffs/cigt.	7.6	7.8
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	123	126
Static Burning Time, min.	*	7.9
Length, mm	83.7	83.8
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	0.200	0.141
<u>Paper</u>		
Permeability, CORESTA Units	26	26
<u>Filter</u>		
RTD, mm of H ₂ O	75	75
Length, mm	26.8	26.6
Weight, g	*	0.15
Tipping Paper Length, mm/Color	32/Cork	32/Cork
Ventilation, %	17	20
<u>Filler</u>		
Total Alkaloids, % (DWB)	2.02	2.01
Total Red. Sugars, % (DWB)	6.1	7.5
Reconstituted Tob., %	14	15
Expanded Stems, %	13	12
Expanded Tob., %	16	10
Wt. of Tob., g (12.5% OV)	0.681	0.679
Rod Density, g/cc	0.243	0.240
<u>Menthol</u>		
Smoke, mg/cigt.	0.47	0.46
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	*	7.8
Glycerin in Filler, %	*	1.9
PG in Filler, %	*	0.8
<u>Firmness (Pack)</u>		
Firmness, mm	2.75	2.93
Weight of Tob., g	0.692	0.689
Oven Volatiles, %	13.2	13.7

*Not tested

BRAND MODIFICATION

BROWN & WILLIAMSON

KOOL MENTHOL 100 (SP)

An increase in expanded tobacco (10 to 16%) was observed for Kool Menthol 100 cigarettes.

Kool Menthol 100 (SP)

	Current	Previous
<u>Smoke</u>		
Butt Length, mm	35	35
Tar, mg/cigt.	14.9	15.3
Nicotine, mg/cigt.	1.22	1.13
Puffs/cigt.	9.3	9.0
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	135	134
Static Burning Time, min.	*	6.9
Length, mm	99.0	99.2
Circumference, mm	24.9	24.9
Loose Ends, g/50 cigt.	0.205	0.196
<u>Paper</u>		
Permeability, CORESTA Units	48	50
<u>Filter</u>		
RTD, mm of H ₂ O	66	64
Length, mm	26.7	26.8
Weight, g	*	0.15
Tipping Paper Length, mm/Color	32/Cork	32/Cork
Ventilation, %	None	None
<u>Filler</u>		
Total Alkaloids, % (DWB)	2.24	2.11
Total Red. Sugars, % (DWB)	7.1	6.8
Reconstituted Tob., %	15	14
Expanded Stems, %	12	13
Expanded Tob., %	16	10
Wt. of Tob., g (12.5% OV)	0.820	0.824
Rod Density, g/cc	0.231	0.231
<u>Menthol</u>		
Smoke, mg/cigt.	0.53	0.48
<u>Humectant/Plasticizer</u>		
Triacetin in Filter, %	*	7.8
Glycerin in Filler, %	*	2.0
PG in Filler, %	*	0.9
<u>Firmness (Pack)</u>		
Firmness, mm	2.62	3.11
Weight of Tob., g	0.845	0.831
Oven Volatiles, %	13.3	13.2

*Not tested